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L26 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2003:262085 HCAPLUS  
 DOCUMENT NUMBER: 138:268074  
 TITLE: Method of attachment  
 INVENTOR(S): Odedra, Raj; Pickering, Lee  
 PATENT ASSIGNEE(S): Amersham Biosciences UK Limited, UK  
 SOURCE: PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027677	A2	20030403	WO 2002-GB4369	20020926
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: GB 2001-23120 A 20010926

OTHER SOURCE(S): MARPAT 138:268074

AB Disclosed is a method for attaching biomols. to a solid surface and a compn. for prepg. that surface for attachment. The compn. comprises mols. of Formula I and Formula II which are defined as follows: Y - X - Z - R1 Formula I Y' - X' - Z' - R2 Formula II and wherein R1 is a **biomol.**, a **reactive group** or a group capable of forming a **reactive group**; R2 is different to R1 and is present in at least a 104 fold molar excess to R1; Y and Y' are groups which can bind to a solid surface; X and X' are atoms which are, at least, bivalent; and Z and Z' are **linker** groups.

L26 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2003:42337 HCAPLUS  
 DOCUMENT NUMBER: 138:91395  
 TITLE: Method for increasing hydrophilicity of fluorescent label compounds, and their use  
 INVENTOR(S): Meltola, Niko; Soini, Aleks  
 PATENT ASSIGNEE(S): Arctic Diagnostics Oy, Finland  
 SOURCE: PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003004569	A1	20030116	WO 2002-FI581	20020701

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: FI 2001-1438 A 20010702  
 US 2001-301831P P 20010702

OTHER SOURCE(S): MARPAT 138:91395

AB The invention relates to fluorescent label compds. in the form of dipyrrometheneboron difluoride dye derivs. contg. NHCH(CH<sub>2</sub>CH<sub>2</sub>Z)CONHY or NHCZCH<sub>2</sub>CH<sub>2</sub>CONHY groups, wherein Z is a **reactive group** and Y is a water-solubilizing moiety or CH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>X, with X being a cation. The invention also relates to the use of the compds. in bioanal. assays and cytol. or histol. staining methods. The invention further relates to a method for increasing the hydrophilicity of fluorescent compds. In an example, a glutamic acid-~~taurine~~ linker, HO<sub>2</sub>CCH<sub>2</sub>CH<sub>2</sub>CH(NH<sub>2</sub>)CONHCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>H, was prepd. and condensed with 4,4-difluoro-5-(2-thienyl)-1,3-dimethyl-4-bora-3a,4a-diaza-s-indacene-2-propionic acid succinimidyl ester and the product was then re-esterified with N-hydroxysuccinimide to give a fluorescent compd. suitable for labeling of mouse IgG anti-AFP.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:126933 HCAPLUS

DOCUMENT NUMBER: 130:179636

TITLE: Polysaccharide conjugates of **biomolecules** and preparation of modified polysaccharides having pendant aldehydes for conjugate preparation

INVENTOR(S): Mehta, Harshvardhan; Singh, Rajendra  
 PATENT ASSIGNEE(S): Behringwerke Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9907744	A1	19990218	WO 1997-US13803	19970808

W: CA, JP

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

EP 961783 A1 19991208 EP 1997-937122 19970808

R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE

JP 2001516394 T2 20010925 JP 1999-512057 19970808

PRIORITY APPLN. INFO.:

WO 1997-US13803 W 19970808

AB Compds. that are modified polysaccharides having pendant aldehyde functionalities are disclosed. Each of the aldehyde functionalities is attached through a **linker** to a position corresponding to a hydrogen atom of a different hydroxyl group of unmodified polysaccharide. Also disclosed is a method for introducing an amine-reactive functionality into a dextran. The method comprises (a) reacting the dextran with an alkylating agent having a functionality that reacts with an hydroxyl group of the dextran thereby forming an alkylated dextran wherein the alkylating agent has an olefin group and (b) treating the alkylated dextran to convert the olefin group to an amine-reactive functionality. A polysaccharide can be conjugated to a **biomol.** by carrying out the above method and reacting the amine-reactive functionality with an amine functionality on the **biomol.** to produce polysaccharide conjugated to the **biomol.** Protein A-dextran conjugate was prep'd. by reacting dextran with allyl glycidyl ether, subjecting the product to ozonolysis, and reacting with protein A. The conjugate was used in an assay to detect autoantibodies to the 65 kD isoform of glutamic acid decarboxylase (GAD65) in human serum samples, esp. from patients with insulin dependent diabetes mellitus.

REFERENCE COUNT: 3. THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER(4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:542488 HCAPLUS

DOCUMENT NUMBER: 127:206935

TITLE: Benzophenoxazine dyes for labeling of **biomolecules**

INVENTOR(S): Simmonds, Adrian; Miller, James N.; Moody, Christopher John; Swann, Elizabeth; Briggs, Mark Samuel Jonathan; Bruce, Ian Edward

PATENT ASSIGNEE(S): Amersham International PLC, UK; Simmonds, Adrian; Miller, James N.; Moody, Christopher John; Swann, Elizabeth; Briggs, Mark Samuel Jonathan; Bruce, Ian Edward

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

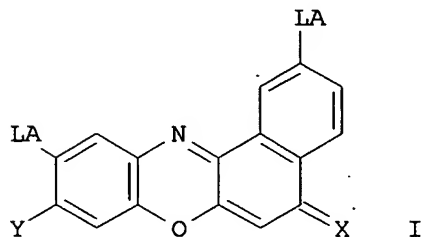
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9729154	A1	19970814	WO 1997-GB324	19970205
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
EP 885263	A1	19981223	EP 1997-902477	19970205

EP 885263 B1 20010425  
 R: CH, DE, DK, FR, GB, IT, LI, NL, SE  
 JP 2000504755 T2 20000418 JP 1997-528276 19970205  
 AU 9716115 A1 19970828 AU 1997-16115 19970206  
 US 6166202 A 20001226 US 1999-117608 19990115  
 PRIORITY APPLN. INFO.: GB 1996-2265 A 19960205  
 WO 1997-GB324 W 19970205  
 OTHER SOURCE(S): MARPAT 127:206935  
 GI



AB Benzophenoxazine compds. having formula I (X = O, NH, N-alkyl, N-aryl, N-alkenyl; Y = H, NR<sub>1</sub>R<sub>2</sub>; R<sub>1</sub>, R<sub>2</sub> = C1-12 alkyl, aryl, alkenyl, LA; L = C0-20 **linker** which may contain O, N, S; A = amino, amide, CN, hydroxy, thiol, carboxy, sulfonate, phosphate, a **reactive group** by means of which the compd. can be linked to a **biomol.**) are synthesized. The compds. are used as fluorescent dyes for labeling **biomols**.

L26 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:34059 HCAPLUS

DOCUMENT NUMBER: 126:57117

TITLE: Methods for the production of platinum-based **linkers** between labels and bio-organic molecules, for labeling bio-organic molecules, for detecting biological substances of interest and diagnostic test kits

INVENTOR(S): Houthoff, Hendrik Jan; Reedijk, Jan; Jelsma, Tinka; Van Es, Remco Maria; Van Den Berg, Franciscus Michiel; Lempers, Edwin Leo Mario; Bloemink, Marieke Johanna  
 PATENT ASSIGNEE(S): Kreatech Biotechnology B.V., Neth.; Houthoff, Hendrik Jan; Reedijk, Jan; Jelsma, Tinka; Van Es, Remco Maria; Van Den Berg, Franciscus Michiel; Lempers, Edwin Leo Mario; Bloemink, Marieke Johanna

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9635696	A1	19961114	WO 1996-NL198	19960508
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,				

LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
 SG, SI  
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,  
 IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN  
 CA 2218815 AA 19961114 CA 1996-2218815 19960508  
 AU 9657040 A1 19961129 AU 1996-57040 19960508  
 AU 724320 B2 20000914  
 JP 11505533 T2 19990521 JP 1996-533965 19960508  
 NZ 307633 A 20000128 NZ 1996-307633 19960508  
 EP 1019420 A1 20000719 EP 1996-915218 19960508  
 EP 1019420 B1 20030806

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI

## PRIORITY APPLN. INFO.:

EP 1995-201197 A 19950509

WO 1996-NL198 W 19960508

## OTHER SOURCE(S):

CASREACT 126:57117; MARPAT 126:57117

AB The present invention provides improved methods of producing platinum compds., which are very suitable for producing labeled substances, which can be used to detect specific mols. of interest. The platinum coordination compds. have two **reactive groups** of which one is replaced by a label and the other one can be replaced by a substance to be labeled. Prodn. of labeled substances is very much improved by selection of the right starting materials and producing the right intermediates. The efficiency of labeling is very much improved, thereby enabling the prodn. of labeling kits which are also a part of the present invention. The methods can be used for the detection of, e.g., various microorganisms and gene translocations/abnormalities.

L26 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1987:583601 HCAPLUS

DOCUMENT NUMBER: 107:183601

TITLE: Macrocyclic bifunctional chelating agents

INVENTOR(S): Meares, Claude F.; DeNardo, Sally J.; Cole, William C.; Mol, Min K.

PATENT ASSIGNEE(S): University of California, Berkeley, USA

SOURCE: U.S., 11 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

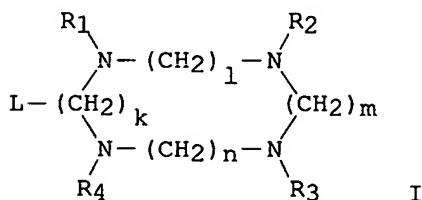
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4678667	A	19870707	US 1985-751769	19850702
PRIORITY APPLN. INFO.:			US 1985-751769	19850702

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AB A Cu chelate conjugate for diagnostic or therapeutic applications which involve Cu<sup>2+</sup> localization via the systemic route comprises a Cu<sup>2+</sup> chelate of a bifunctional macrocyclic polyamide I (k, l, m, n = 1-4; .gtoreq.2 of R1-R4 = -CH<sub>2</sub>CO<sub>2</sub>-, the rest H; L = **linker** with chem. **reactive group** capable of reacting with a **biomol** ., and CH<sub>2</sub>(1) indicates that the ring C to which L is attached has only 1 H) and, chem. linked to the **linker**, a **biomol**. selected from among antibodies, antibody fragments, serum proteins, and bleomycin. The Cu<sup>2+</sup> chelate of 13-(p-nitrobenzyl)-1,4,8,11-tetraazacyclotetradecane-N,N',N'',N'''-tetraacetic acid (prepn. given) was activated by conversion of the arom. NO<sub>2</sub> group to a bromoacetamide by the method of Meares, et al. (1984), then mixed (1.5 mM) with Lym-1 antibody (IgG2 mouse monoclonal antibody against B-cell lymphoma) (0.5 mM) in 0.15 M Na<sub>3</sub>PO<sub>4</sub> and reacted for 2 h at 37.degree. and pH 9.0-9.5 (adjusted with satd. Na<sub>3</sub>PO<sub>4</sub>). The resulting antibody-chelate product was purified on a Sephadex G-50-80 column.